USE MACHINERY FOR CUTTING CORN CROP

Binders and Platform Harvesters Save Man-Power and Energy.

Performing Task by Hand is Hard, Disagreeable Job-Bundle Elevar Attachment Eliminates One Man in the Crew.

(Prepared by the United States Depart-ment of Agriculture.) This year when farm help is so limited, there is an urgent need for laborsaving machinery wherever possible. One man with a corn knife by working hard can cut and shock an average of 11/2 acres a day. Two men with a platform harvester can harvest 4 or 5 acres in the same time and three men with a corn binder in a ten-hour day can cut and shock from 7 to 9 acres. Cutting corn by hand is a hard, disagreeable task, the bulletin points out, and the time when it should be done is limited to a few days if the full feeding value of the corn is to be etained. Fall plowing, seeding for inter wheat and digging potatoes just be done on many farms at about the same time. In such cases, the timeliness and ease of accomplishing the work are determining factors in deciding the advisability of using corncutting machinery.

The corn binder does the best work when the corn is all standing upright.



Labor-Saving Methods of Harvesting

laborious work takes from onehalf to two-thirds as long to cut a giv-en acreage. animals and man.

When the binder is used for cutting corn for silage the labor of at two men will be saved as comof the harvesting crew.

A bundle elevator attachment to the corn binder saves further labor. By this attachment the bundles of corn are delivered directly to a wagon driv-en by the side of the binder. This method eliminates another man in the crew. When the bundles are dropped from the binder to the ground two men are generally required to hand them up as fast as one man can arrange them on the wagon. When an elevator attachment is used one man usually arranges the bundles on the wagon as they are delivered from the binder and another man or boy drives the

The platform harvester is the most satisfactory machine when the acreage in corn is not sufficiently large to justify a binder. This machine consists of an A-shaped platform on low wheels two sides of which are equipped with knives. It is drawn by one horse, operated by two men, and cuts two rows at a time. The men gather the stalks as they are cut, and when the shock is reached the horse is lution into all cracks and crevices. stopped and the men'carry the cut corn to the shock. In cutting corn with a platform harvester for sliage much time can be saved and efficient work done if a wagon is driven alongside the harvester and the corn placed on It directly as it is cut. By this method approximately five acres of corn yielding 8 tons of silage per acre constiwith a platform harvester and one horse will cut and shock at least as much corn in a day as three men cutting by hand. This machine thus taking the place of one hired helper will very nearly pay for Itself in cutting 40

Avoid Damp Grass. Don't allow the hops to run the

OF DISINFECTION

Thoroughness in Performing Operation is important for Securing Best Results.

PRELIMINARY WORK NEEDED

Various Surfaces Should Be Swept Clean and All Refuse Matter Removed-Selection and Preparation of Disinfectant.

(From the United States Department of

In the practical work of disinfection there are three essen-

1. A preparation of the building that will facilitate reaching organisms of disease. 2. A disinfectant which upon contact can be depended upon to

destroy such organisms.

3. A method of applying the disinfectant that will assure the most thorough contact with the bacteria

Before beginning the use of distr-fectant it in essential that certain preliminary work be done in and about the stable that is to be treated. The various surfaces, such as ceilings, various surfaces, such as cellings, walls, partitions, floors, etc., should be swept until free from cobwebs and dust. Any accompliation of fifth should be removed by scraping and scrubbing, using for this purpose a wire or other still brush and warm water with a liberal quantity of weshing sade. In some cases the washing sods. In some cases the woodwork may have become softened and so porous as to be a good medium for the absorption of disease germs. Such woodwork should be removed, burned, and replaced with new material.

Remove Refuse Matter.

All refuse, manure, etc., from sta-ble and barnyard should be removed to a place inaccessible to live stock and, if possible, be burned or thor-oughly mixed with a solution of chloride of lime in the proportion of six ounces to one callor of water. If the floor is of parts, it will doubtless have become stained with urine for the submarines which menace and contaminated town depth of several inches. In such cases four inches or more of the surface soil should be removed and treated as suggested

Corn. the disinfectant. The fact must not be overlooked that many agents used for the destruction of bacteria are obtained with a three-horse team, and likewise possopous to animals and sometimes four horses are necessary man. In fact, some drugs, although when the corn is heavy or the ground powerful as germicides, are so pol-hilly. In ordinary yields, one man op-sonous as to preclude their general erating the binder will keep two men use in the work of disinfection. erating the binder will keep two men use in the work of disinfection, busy gathering the bundles and shock- Among such, as previously stated, is ing them. These three men cutting bichloride of mercury, which pos-and shocking by hand would scarcely sesses the power of destroying not cover more than four acres in a day only bacteris, but spores as well. It and it would be necessary to work is therefore essential in deciding upon much harder than when the corn bind- an agent to select one having a known er is used, thus the machine requiring germicidal strength, properties of solubility and at the same time possess-

ethod of Application. The efficiency and economy of the work will depend in a great measure pared to cutting by hand. One binder upon the method of applying the diswill usually be able to cut the corn A.fectant. Economy requires that the as fast as a 12 or 14-inch silage cutter disinfecting solution be applied rapcan handle it. A great deal of time billy, efficiency requires that it be is saved in unloading at the cutter, not only spread in such manner as because the corn is in bundles, which to cover the entire surface requiring nables a further reduction in the size disinfection, but that sufficient quantity and force be used to drive the so-



Pail Spraying Pump Suitable for Disinfecting Small Stables.

... Where a very limited surface is to be treated, as, for example, one stall, it may be possible to apply the distri-fectant it resatisfactory manner by means of a whitewash brush. In all cases, however, the best method of applying the disinfectant and the lime wash it by means of a strong spray

The entire interior of the stable should be saturated with the disinfectant. Special attention should be given to the feeding troughs and drains. After the disinfectant has drains. After the disinfectant has with lime wash, provided this has not been combined with the disinfectant as previously described. When the work has been completed it will be advisable to open all doors and chicks through the damp grass on windows of the building for the addewg mornings or rainy days.

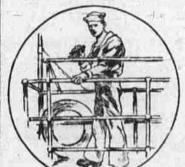
"Everything Goes In War, 'Says Jackie' Even a Fellow's Hair"



H, very well. We're the bald-headed twins if you say so. So say these two members of the U. S. Naval Band, Cleveland station, which is on tour in the Fourth Federal Reserve District to boost bond sales for the Fourth Loan. You can't get a "rise" out of either of these boys by reference to their unthatched domes. Witness the smiles. "Everything goes in war," says the baldy with the big born, "even a

That one is Edmond Inski, who enlisted with his E flat tuba the minute the band was talked of. His "twin" is A. F. Gerloch, who was

financial secretary of the musicians' union in Cleveland before enlisting. Inski is 21-Gerloch is 26



OUR boys who have gone to the navy are constantly on the alertfor the submarines which menace across the Atlantic

One \$100 Liberty Bond and one \$50 Liberty Bond will equip an enlisted above for refuse and manure.

Having made ready the field operation, the next consideration should be the selection and preparation of a year.

Liberty Bond will equip an enlisted man in the navy for one year. Or the same two bonds will feed him for a year.

Cards From Boys Will Urge Buy ng of Bonds

Ten million sets of post cardsfive in a set-have been sent to Europe by the War Loan Organization at Washington to be distributed among the boys of the American

Expeditionary Forces. By this time they probably have been put in the hands of the boys over there and some are probably on their way back to this country. Each card bears a message from the boy to the home folks urging

folks to invest in Liberty

Bonds. The cards bear photographs of tanks, guns, ammunition, etc.things which the boys need and which the home folks' money will The cards will be coming back soon in large numbers. Ohio and Kentucky and West Virginia and Pennsylvania will be receiving their share of them.

Brother, Buy Another!

Brother, buy another bond! It will help to pave the way For the boys who've gone beyond The Atlantic to the fray. Do not falter. Do not say You have done enough, my brother, Buy another bond today-And another-AND ANOTHER!

What a blessed chance is yours Thus to do your bumble part For the Freedom that endures Deep in every Yankee's heart! Give this Loan a rousing start With your glad subscription, brother Every dollar is a Dart! Buy a bond-AND BUY ANOTHER! -William F. Kirk.

WHERE LIBERTY BOND FUNDS GO

ONE FIVE HUNDRED DOLLAR BOND WILL BUY: Steel helmets for a company of infantry, or

Five hundred overseas caps, or Pay the cost of drafting one hundred men.

"Let your dollars be the ships that will bring the boys home again-buy Liberty Bonds!"

Smother the Kaiser in Liberty

No Resisting These Officers. Church-I hear you have policewom en in New York, now? Gotham-Yes, we have. "Have you seen 'em?"

"Oh, yes," "Think they'll be efficient in making arrests?"

"I can't see how any man could resist



you need and waste nothing

UNITED STATES FOOD, ADMINISTRATION

************ **ELIMINATE GUESS WORK**

(Prepared by the United States De partment of Agriculture.)

The cow-testing association takes the guess work out of dairying. No longer can the camouflage of a fine appearance protect the low-producing dairy Conformation indicates performance, but the Babcock est and the milk scales always tell the true story. Knowing the true feed and production records of each cow, the dairy man practices selective breeding, eliminates with certainty all low producers, and feeds the remainder according to known production

SKIM MILK IS BEST UTILIZED BY FAMILY

¥++++++++++++++++++++++++

Feed Only Surplus of Nutritious Food to Live Stock.

None of It, Either Fresh or Sour, Should Be Wasted-Supplies More Food Value in Preparing Dishes for Table,

(Prepared by the United States Depart-ment of Agriculture.)

It is generally understood that milk is a good, nutritious food, yet on many farms some skim milk is fed to live stock that could be utilized to better advantage by the housewife in feeding the family. It is cheaper and easier to find an economical substitute for it in feeding stock than in feeding human beings. Skim milk should therefore be used in home cookery first, in every way possible, then if there is any surplus it should be given to the young stock on the farm. It is needless to sny that none of it, either fresh or sour, should be wasted. When utilized in preparing dishes for human consumption it supplies more food w

than when fed to animals and converted into meat. Surplus skim milk may be used economically to feed hogs, yet 100 pounds of it, which will produce 15 pounds of cheese, produce only 4.8 pounds of dressed pork if fed with corn. Skim milk if made into cottage cheese furnishes nearly seven times as much protein and nearly as much energy as the dressed pork it would produce. Of course the most nourishment is obtained when skim milk is used direct, either for drinking or cooking. As far as possible, therefore, skim milk should be used for human food, and only the excess fed to live stock.

Buttermilk is equal to skim milk for feeding hogs, while whey is half as valuable. Whey, being low in protein, is not well suited for young pigs and should be fed to older animals.

Ordinary grass pasture, or green rye, oats, sorghum, rape, clover, alfalfa, pens, or beans can take the place of skim milk after the little pigs get a start. Much green feed can be raised without greatly reducing the acreage

of other crops. Calves and pigs do well when some skim milk is fed, but they need it only for a short time and in limited quantitles. Except when fed to very young animals, skim milk is fed most economically when supplemented with grain. For dairy calves skim milk may be substituted in part for whole milk on the tenth day. If the calves are vigorous they should receive a little grain and

hay at two weeks of age and it is safe to discontinue the skim milk five or six weeks later. By substituting grain, green feed, buttermilk and whey for skim wilk in animal feeding, much skim milk may be released for use in cooking, for con-

Barley Easily Damaged. Barley is easily damaged by the Wet-days at cutting time, weather. poor shocking and over-ripeness will

densing, or for making cottage cheese.

FOX NECKPIECE ALWAYS SMART

reduce seriously the quality.



Some fur pieces serve only for winter wear and others do duty winter and summer. A scarf or a small cape is a good choice for an all-the-year-round neckplece. The scarf pictured looks like a single pelt of the fox, but is made of two skins. It is finished with hend, claws and tall. Fox is a soft and very becoming fur. It is dyed in many colors, but the choicest skins are not dyed.

TENNIS

BY R. ESTELLE EVERETT.

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Geoffrey Hilton tossed a penny on the counter, caught up a newspaper and hurried into the waiting car. He opened his paper, and after finishing an article, was about to turn the page when he heard a smothered and disappointed "Oh!" beside him. He turned and discovered that he was sitting beside a very attractive girl dressed in sports clothes, carrying a tennis racquet. Her golden hair curled about her face bewitchingly; she turned her head so quickly that Hilton received only the tiniest glimpse of blue eyes. He opened the paper to where it was before and searched diligently for what had so interested the beautiful stranger. His search was of no avail. however, and soon the girl got off. Nearing his stop, and turning to press the button, Hilton noticed a postcard lying on the next seat addressed to the firm of which he was an employe. He picked it up, slipped it into his pocket and promptly forgot all

At his club several hours later while he was smoking his after-dinner cigar Hilton's mind wandered to the girl on the car. Thoughts of her reminded him of the card which probably she dropped, and he fished it out of his pocket. Being careful not to read the message, he just glanced at the signature-Rosalie Earnshaw, 340 Somerset avenue.

"By Jove," he murmured, "Jack Warren lives at 343. I wonder if he

knows her. The next day, accidently on purpose, Geoffrey Hilton happened to stroll by Jack Warren's place of business just as the latter was leaving for lunch. The two old collegemates were glad to meet again, and joyfully talked over old times. After a little maneuvering Hilton obtained for himself an invitation to dinner at the Warrens' that evening.

As it was still light after dinner, thanks to Uncle Sam's light-saving idea, the two men had a set of tennis. After Mrs. Warren came out they had another delightful hour on the ver-

It was with great interest that Hilton watched the house across the street. Suddenly a light glowed in one of the upper windows, and his girl of the car appeared to pull down the curtain.

girl-Rosalie Earnshaw," re marked Warren. "Do you know her, Jeff?"

"I believe I've seen her once or twice," replied Hilton, "but I do not know her.

"Sny. Beth," cried Jack, "I've n corking idea! Let's invite her and Jeff Wednesday evening for dinner and have a couple of set of doubles." "Why, it would be lovely," his wife. "Could you come, Mr. Hilton?"

"With the greatest of pleasure," said Hilton, heartily.

Soon Hilton bade his friends goodnight and departed, promising to be there Wednesday. That night be dreamed that he was at the Warrens' playing tennis with Rosalie. Somehow his racquet twisted and he sent the ball he was serving directly into Rosalie's face! Stunned by the blow. Rosalle, fainting, dropped to the ground. Hilton rushed for water, and find himself kne floor liberally besprinkling the rug

Wednesday was an ideal August day. Hilton strode gayly along Somerset avenue, swinging his racquet, his heart keeping time to his quick foot-

As Mrs. Warren introduced him to Miss Earnshaw, he fancied that sho graw a shade pinker, but he wasn't sure She gave him her hand and a beautiful smile in such a way that Jack asked:

"Have you two met before?" Hilton looked at Miss Earnshaw interrogatively. She replied: "We've never spoken, but Mr. Hil-

ton very kindly permitted me to read his paper one evening." Geoffrey was dumfounded-that she

should remember; he never even imagined-luckily the Japanese gong announcing dinner sounded, and the group went into the dining room, Mrs. Warren, ordent matchmaker that she was, made Rosalle and Hilton

partners in the tennis which followed All four were excellent players and there was a hard tussle for the games. They played until it was so dark they had to stop, leaving the score a tle. Very often in the fortnight which followed Hilton was to be found in the vicinity of Somerset avenueeither at Rosalie's or the Warrens'.

games and canoe trips on the near-by One afternoon in late September Geoffrey and Rosalle were idly drifting across the like in a canoe, when Geoffrey asked Rosalie to share the rest of his life with him.

They had many delightful tennis

Wasn't His Fault.

The young recruit was gifted with mall feet and experienced difficulty in getting shoes to fit at the supply room. After several attempts the best he could do was many sizes too big. At drill that day the command was given to "mark time," All seemed to obey except him with the small feet. Singling him out, the commanding officer demanded to know why he was not "marking time," "Why, man alive," replied the poor fellow, "my feet are going, but my shoes nin'L"